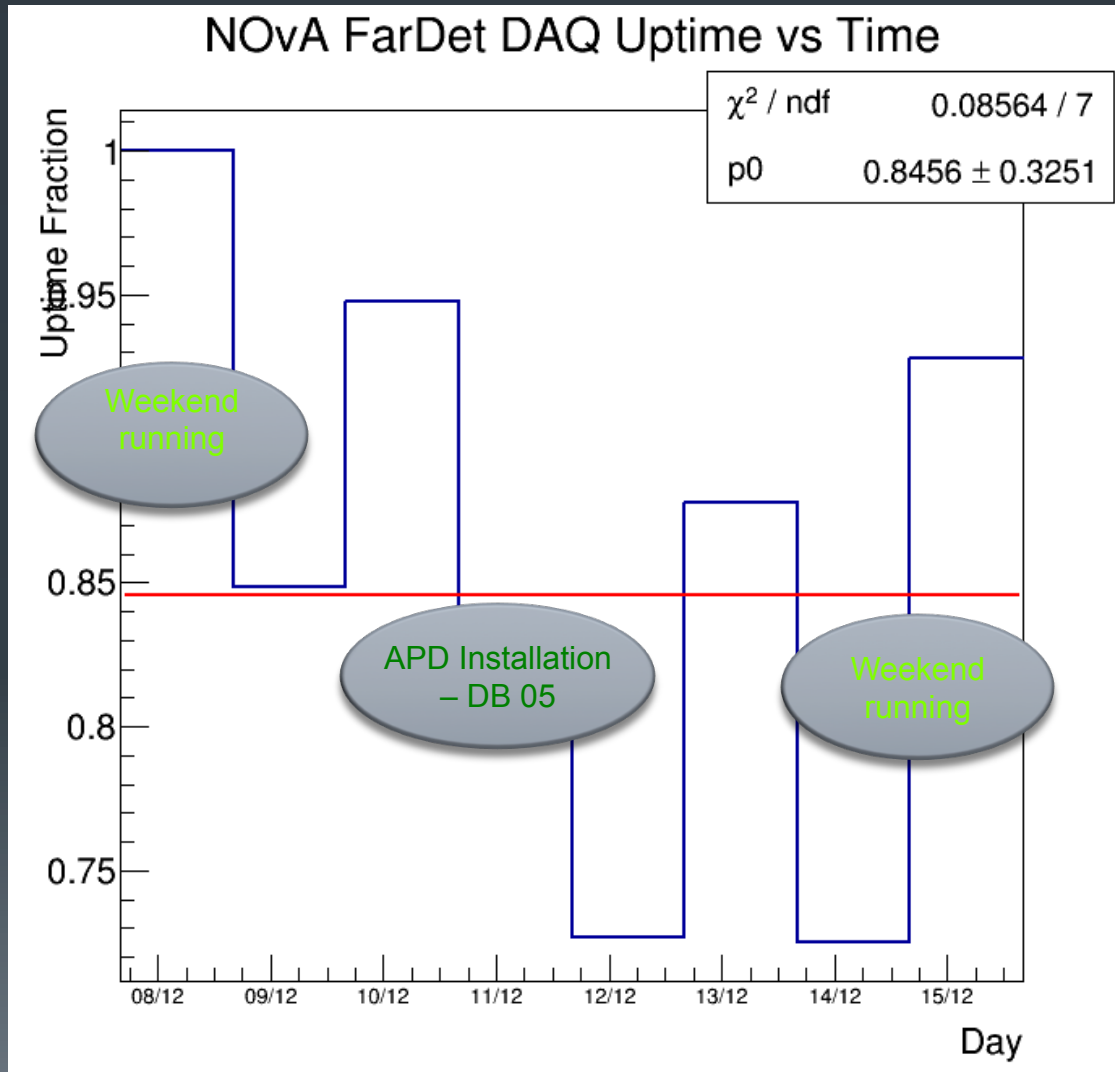




NOvA Experiment Status

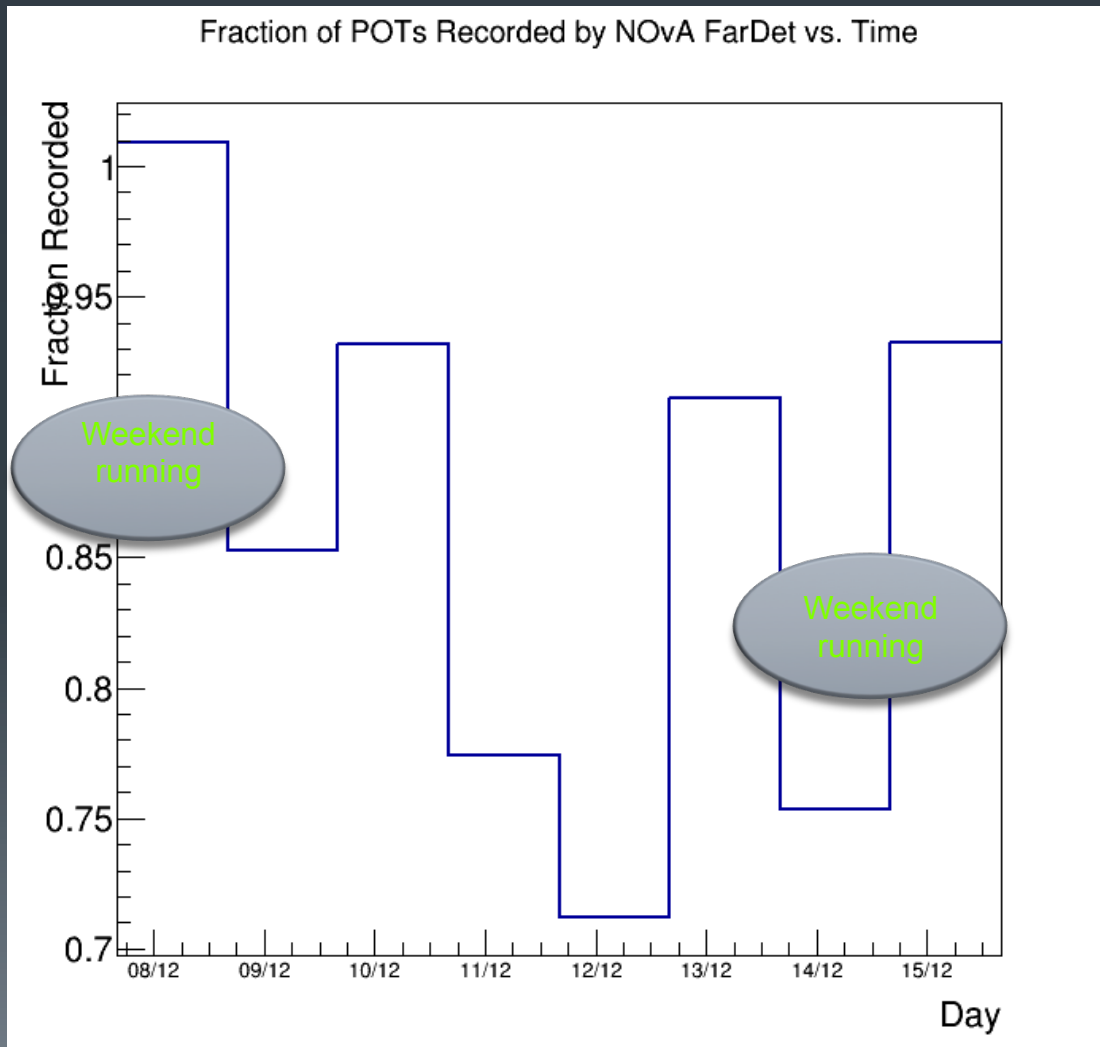
Steve Magill Argonne National Laboratory
All Experimenter's Meeting, December 16, 2013

FarDet performance – DAQ Uptime



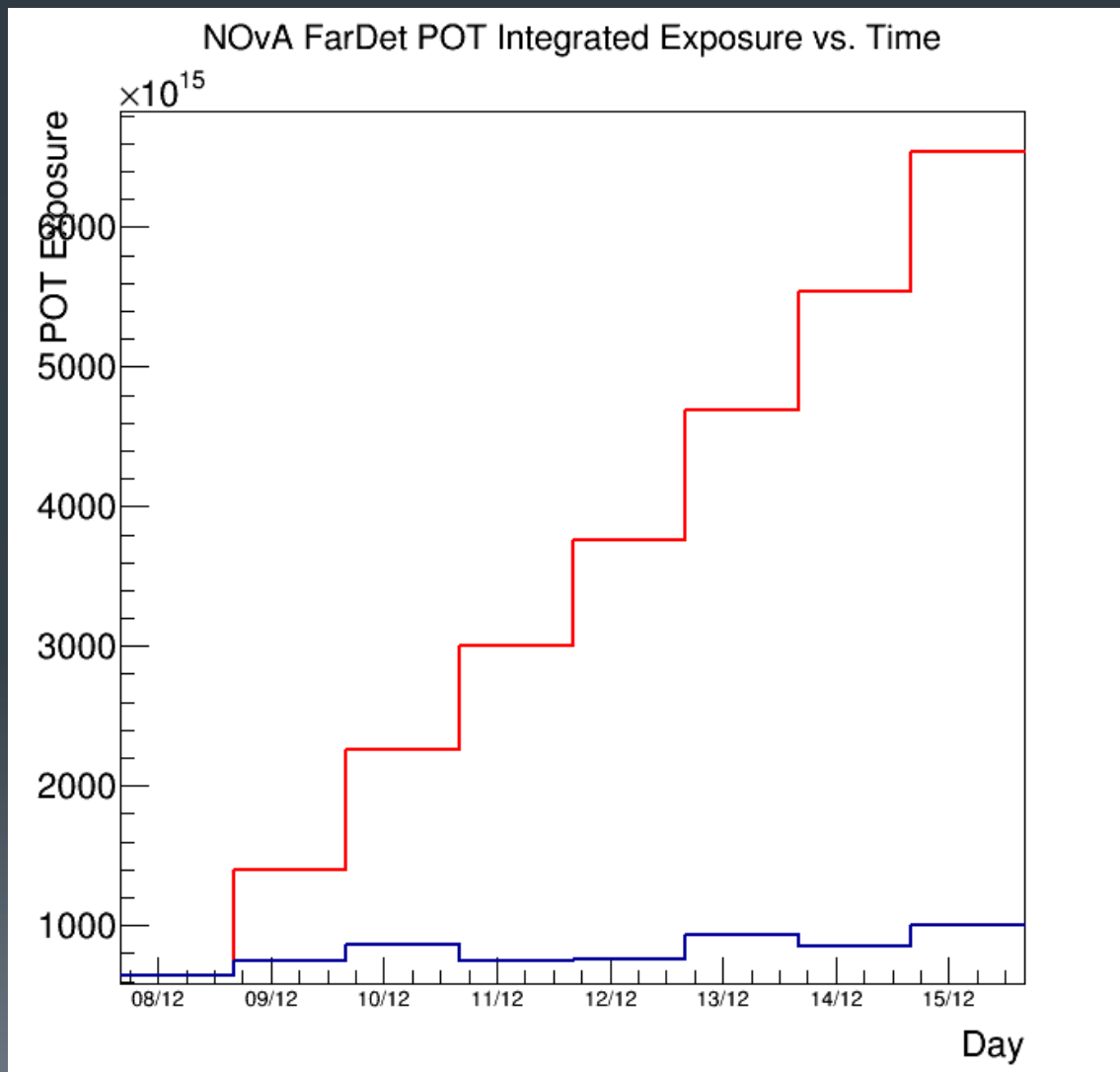
- Very reliable, continuous running on weekends
- APD installation weekdays interrupts DAQ
- Weekday replacements also stops DAQ
- On when beam is off (commissioning with c-rays)
- Some problems starting runs over past week/weekend (DAQ size?, full disks?)

FarDet Performance – Fraction of POTs Recorded



- Very reliable, continuous running on weekends
- DAQ uptime when beam is off (commissioning with c-rays)

FarDet Performance – Integrated POT



- Daily (blue) and integrated (red) POT exposure
- During APD installation and hardware replacement, DAQ uptime and POT exposure depends on location of work
- Steady increase (however HORN OFF)

Require $\sim 5E19$ POT to see a neutrino at 90% CL – with 2 kT (2 diblocks)

So far $\sim 9.3E18$ has been collected in good runs

Near Detector Schedule



News and Schedule



- **Block #8 assembly started last Thursday, Dec 12**
47 module delivered Dec 12, one more shipment this Thursday
Projected assembly finish date is Jan 3
- **Electronics ORC granted last Wednesday, Dec 11**
Thanks Bill for tracking down the HVAC network cable issue
FEB-DCM cabling status?
- **Scintillator filling ORC review started**
Safety documentations submitted
First safety walk-through this Wednesday(?)
Setting up filling machines – Nathan Mayer/Nitin Yadav/Karen
- **FNAL tanker-to-MSB moving schedule**
MSB window fire-protection insulation underway?
Secondary containment berm installation right after window insulation
New Teflon lined tanker hose with 35' long ordered last week
Hole on MSB door or wall – Bill taking to fire chief and Jim Priest
More statis-425 to the tanker before moving over
- **FEB5 testing news?**

8th Block completes
the Near Detector!

Summary

- NDOS Prototype running smoothly, useful for testing of software/firmware/monitoring upgrades before rolling out at FarDet – presently testing new FEBs for Near Detector
- FarDet – 2.5 diblocks running cold at full gain – very smooth running, >3 diblocks instrumented with APDs, 26th block (out of 28) in place – new APD installation ongoing
- Very good performance of APDs w/o A174 primer - $2 \times (1/2)$ diblocks running with full gain.
- Plan to run with $2 + 3 \times (1/2)$ diblocks of instrumented APDs in cold configuration with full gain over holidays
- NearDet – 7/8 of the Near Detector blocks are in place – last block in place by January 3, 2014, scintillator filling to start immediately after